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E3	1	*PN=US 5611705
E4	1	PN=US 5611706
E5	1	PN=US 5611707
E6	1	PN=US 5611708
E7	1	PN=US 5611709
E8	1	PN=US 5611710
E9	1	PN=US 5611711
E10	1	PN=US 5611712
E11	1	PN=US 5611713
E12	1	PN=US 5611714

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DIALOG(R)File 345:Inpadoc/Fam. & Legal Stat

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12460202

Basic Patent (No,Kind,Date): US 5419710 A 19950530 <No. of Patents: 018>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
DE 19521137	A1	19951214	DE 19521137	A	19950609
FR 2721145	A1	19951215	FR 956362	A	19950530
GB 9509228	A0	19950628	GB 959228	A	19950505
GB 9614530	A0	19960904	GB 9614530	A	19950505
GB 9619782	A0	19961106	GB 9619782	A	19950505
GB 9620175	A0	19961113	GB 9620175	A	19950505
GB 2290176	A1	19951213	GB 959228	A	19950505
GB 2302769	A1	19970129	GB 9614530	A	19950505
GB 2303002	A1	19970205	GB 9619782	A	19950505
GB 2303003	A1	19970205	GB 9620175	A	19950505
GB 2290176	B2	19970702	GB 959228	A	19950505
GB 2302769	B2	19970625	GB 9614530	A	19950505
GB 2303002	B2	19970625	GB 9619782	A	19950505
GB 2303003	B2	19970625	GB 9620175	A	19950505
JP 8050975	A2	19960220	JP 95141500	A	19950608
US 5419710	A	19950530	US 258348	A	19940610 (BASIC)
US 5556293	A	19960917	US 382489	A	19950201
US 5611705	A	19970318	US 382487	A	19950201

Priority Data (No,Kind,Date):

US 258348	A	19940610
US 382487	A	19950201
GB 959228	A3	19950505
US 382489	A	19950201
US 258348	A2	19940610

PATENT FAMILY:

GERMANY (DE)

Patent (No,Kind,Date): DE 19521137 A1 19951214

BEFESTIGUNGSVORRICHTUNG FUER EINE KUGELGITTERANORDNUNGSEINRICHTUNG

(German)

Patent Assignee: PFAFF WAYNE (US)

Author (Inventor): PFAFF WAYNE K (US)
Priority (No,Kind,Date): US 258348 A 19940610; US 382487 A
19950201
Applic (No,Kind,Date): DE 19521137 A 19950609
IPC: * G01R-031/26; G01R-031/02; H01R-033/76; H01L-021/66; H01L-023/32
Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872
Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):

DE 19521137	P	19940610	DE AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
		US 258348 A	19940610		
DE 19521137	P	19950201	DE AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
		US 382487 A	19950201		
DE 19521137	P	19950609	DE AE	DOMESTIC APPLICATION (PATENT APPLICATION)	(INLANDSANMELDUNG (PATENTANMELDUNG))
		DE 19521137 A	19950609		
DE 19521137	P	19951214	DE A1	LAYING OPEN FOR PUBLIC INSPECTION	(OFFENLEGUNG)
DE 19521137	P	19980610	DE 8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	(ERLEDIGT WEGEN NICHTZ. D. JAHRESGEB.)

FRANCE (FR)

Patent (No,Kind,Date): FR 2721145 A1 19951215
APPAREIL POUR LE MONTAGE D'UN DISPOSITIF COMPORTANT UN RESEAU EN GRILLE
POUR BORNES EN FORME DE BILLE POUR LE TEST DE CIRCUITS ELECTRONIQUES.
(French)
Patent Assignee: PFAFF WAYNE (US)
Author (Inventor): PFAFF WAYNE K
Priority (No,Kind,Date): US 258348 A 19940610; US 382487 A
19950201
Applic (No,Kind,Date): FR 956362 A 19950530
IPC: * H01R-013/639; H01R-013/193; G01R-001/04; G01R-031/316;
G01R-031/317
Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872
Language of Document: French

FRANCE (FR)

Legal Status (No,Type,Date,Code,Text):

FR 956362	AN	19951215	FR AGA	FIRST PUBLICATION OF APPLICATION	(DELIVRANCE (PREM. PUB. DEMANDE DE BREVET))
		FR 2721145 A1	19951215		
FR 2721145	PN	19940610	FR AA	PRIORITY (PATENT)	(PRIORITE (BREVET))
		US 258348 A	19940610		
FR 2721145	PN	19950201	FR AA	PRIORITY (PATENT)	(PRIORITE (BREVET))
		US 382487 A	19950201		
FR 2721145	PN	19950530	FR AE	APPLICATION DATE	(DATE DE LA DEMANDE)
		FR 956362 A	19950530		

GREAT BRITAIN (GB)

Patent (No,Kind,Date): GB 9509228 A0 19950628
MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
Patent Assignee: PFAFF WAYNE
Priority (No,Kind,Date): US 382487 A 19950201; US 258348 A

19940610
 Applic (No,Kind,Date): GB 959228 A 19950505
 Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G 97-079999; G 97-089871; G 97-089872
 Language of Document: English
 Patent (No,Kind,Date): GB 9614530 A0 19960904
 MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
 Patent Assignee: PFAFF WAYNE
 Priority (No,Kind,Date): GB 959228 A3 19950505; US 382487 A 19950201; US 258348 A 19940610
 Applic (No,Kind,Date): GB 9614530 A 19950505
 Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G 97-079999; G 97-089871; G 97-089872
 Language of Document: English
 Patent (No,Kind,Date): GB 9619782 A0 19961106
 MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
 Patent Assignee: PFAFF WAYNE
 Priority (No,Kind,Date): GB 959228 A3 19950505; US 382487 A 19950201; US 258348 A 19940610
 Applic (No,Kind,Date): GB 9619782 A 19950505
 Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G 97-079999; G 97-089871; G 97-089872
 Language of Document: English
 Patent (No,Kind,Date): GB 9620175 A0 19961113
 MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
 Patent Assignee: PFAFF WAYNE
 Priority (No,Kind,Date): GB 959228 A3 19950505; US 382487 A 19950201; US 258348 A 19940610
 Applic (No,Kind,Date): GB 9620175 A 19950505
 Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G 97-079999; G 97-089871; G 97-089872
 Language of Document: English
 Patent (No,Kind,Date): GB 2290176 A1 19951213
 MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
 Patent Assignee: PFAFF WAYNE KAY (US)
 Author (Inventor): PFAFF WAYNE KAY
 Priority (No,Kind,Date): US 382487 A 19950201; US 258348 A 19940610
 Applic (No,Kind,Date): GB 959228 A 19950505
 National Class: * H2E EAHC EAHG; H2E EAHF EAHF; H2E ECABE ECABE; U1S S2088; U1S S2197
 IPC: * H01R-013/71
 Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G 97-079999; G 97-089871; G 97-089872; G 96-012918
 Language of Document: English
 Patent (No,Kind,Date): GB 2302769 A1 19970129
 METHOD OF MOUNTING BALL GRID ARRAY DEVICE IN SOCKET (English)
 Patent Assignee: PFAFF WAYNE KAY (US)
 Author (Inventor): PFAFF WAYNE KAY
 Priority (No,Kind,Date): GB 959228 A3 19950505; US 382487 A 19950201; US 258348 A 19940610
 Applic (No,Kind,Date): GB 9614530 A 19950505
 National Class: * H2E EAHC EAHG; H2E EAHF EAHF; H2E ECABE ECABE; U1S S2088
 IPC: * H01R-013/71; G01R-001/073
 Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G 97-079999; G 97-089871; G 97-089872; G 97-079999
 Language of Document: English
 Patent (No,Kind,Date): GB 2303002 A1 19970205
 MOUNTING APPARATUS AND BALL GRID ARRAY DEVICE (English)
 Patent Assignee: PFAFF WAYNE KAY (US)
 Author (Inventor): PFAFF WAYNE KAY
 Priority (No,Kind,Date): GB 959228 A3 19950505; US 382487 A 19950201; US 258348 A 19940610
 Applic (No,Kind,Date): GB 9619782 A 19950505
 National Class: * H2E EAHC EAHG; H2E EAHF EAHF; H2E ECABE ECABE; U1S

S2088
IPC: * H01R-013/71; G01R-001/073
Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872; G 97-089871
Language of Document: English
Patent (No,Kind,Date): GB 2303003 A1 19970205
MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
Patent Assignee: PFAFF WAYNE KAY (US)
Author (Inventor): PFAFF WAYNE KAY
Priority (No,Kind,Date): GB 959228 A3 19950505; US 382487 A
19950201; US 258348 A 19940610
Applic (No,Kind,Date): GB 9620175 A 19950505
National Class: * H2E EAHC EAHC; H2E EAHP EAHP; H2E ECABE ECABE; U1S
S2088
IPC: * H01R-013/71; G01R-001/073
Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872; G 97-089872
Language of Document: English
Patent (No,Kind,Date): GB 2290176 B2 19970702
MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
Patent Assignee: PFAFF WAYNE KAY (US)
Author (Inventor): PFAFF WAYNE KAY
Priority (No,Kind,Date): US 382487 A 19950201; US 258348 A
19940610
Applic (No,Kind,Date): GB 959228 A 19950505
National Class: * H2E EAHC EAHC; H2E EAHP EAHP; H2E ECABE ECABE; U1S
S2088; U1S S2197
IPC: * H01R-013/71
Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872
Language of Document: English
Patent (No,Kind,Date): GB 2302769 B2 19970625
METHOD OF MOUNTING A BALL GRID ARRAY DEVICE (English)
Patent Assignee: PFAFF WAYNE KAY (US)
Author (Inventor): PFAFF WAYNE KAY
Priority (No,Kind,Date): GB 959228 A3 19950505; US 382487 A
19950201; US 258348 A 19940610
Applic (No,Kind,Date): GB 9614530 A 19950505
National Class: * H2E EAHC EAHC; H2E EAHP EAHP; H2E ECABE ECABE; U1S
S2088
IPC: * H01R-013/71; G01R-001/073
Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872
Language of Document: English
Patent (No,Kind,Date): GB 2303002 B2 19970625
BALL GRID ARRAY DEVICE AND APPARATUS FOR MOUNTING IT (English)
Patent Assignee: PFAFF WAYNE KAY (US)
Author (Inventor): PFAFF WAYNE KAY
Priority (No,Kind,Date): GB 959228 A3 19950505; US 382487 A
19950201; US 258348 A 19940610
Applic (No,Kind,Date): GB 9619782 A 19950505
National Class: * H2E EAHC EAHC; H2E EAHP EAHP; H2E ECABE ECABE; U1S
S2088
IPC: * H01R-013/71
Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872
Language of Document: English
Patent (No,Kind,Date): GB 2303003 B2 19970625
MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
Patent Assignee: PFAFF WAYNE KAY (US)
Author (Inventor): PFAFF WAYNE KAY
Priority (No,Kind,Date): GB 959228 A3 19950505; US 382487 A
19950201; US 258348 A 19940610
Applic (No,Kind,Date): GB 9620175 A 19950505
National Class: * H2E EAHC EAHC; H2E EAHP EAHP; H2E ECABE ECABE; U1S
S2088

IPC: * H01R-013/71; G01R-001/073

Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872

Language of Document: English

GREAT BRITAIN (GB)

Legal Status (No, Type, Date, Code, Text):

GB 2290176	P	19940610	GB AA	PRIORITY (PATENT)
		US 258348	A	19940610
GB 2290176	P	19950201	GB AA	PRIORITY (PATENT)
		US 382487	A	19950201
GB 2290176	P	19950505	GB AE	APPLICATION DATA (APPL. DATA)
		GB 959228	A	19950505
GB 2290176	P	19951213	GB A1	APPLICATION PUBLISHED (APPL. PUBLISHED)
GB 2290176	P	19970702	GB B2	PATENT GRANTED
GB 2290176	P	19991229	GB PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE 990505
GB 2302769	P	19940610	GB AA	PRIORITY (PATENT)
		US 258348	A	19940610
GB 2302769	P	19950201	GB AA	PRIORITY (PATENT)
		US 382487	A	19950201
GB 2302769	P	19950505	GB AA	APPLICATION NO OF BASIC APPLICATION (APPL. NO OF BASIC APPL.)
		GB 959228	A3	19950505
GB 2302769	P	19950505	GB AE	APPLICATION DATA (APPL. DATA)
		GB 9614530	A	19950505
GB 2302769	P	19970129	GB A1	APPLICATION PUBLISHED (APPL. PUBLISHED)
GB 2302769	P	19970625	GB B2	PATENT GRANTED
GB 2302769	P	19991229	GB PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE 990505
GB 2303002	P	19940610	GB AA	PRIORITY (PATENT)
		US 258348	A	19940610
GB 2303002	P	19950201	GB AA	PRIORITY (PATENT)
		US 382487	A	19950201
GB 2303002	P	19950505	GB AA	APPLICATION NO OF BASIC APPLICATION (APPL. NO OF BASIC APPL.)
		GB 959228	A3	19950505
GB 2303002	P	19950505	GB AE	APPLICATION DATA (APPL. DATA)
		GB 9619782	A	19950505
GB 2303002	P	19970205	GB A1	APPLICATION PUBLISHED (APPL. PUBLISHED)
GB 2303002	P	19970625	GB B2	PATENT GRANTED
GB 2303002	P	19991229	GB PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE 990505
GB 2303003	P	19940610	GB AA	PRIORITY (PATENT)
		US 258348	A	19940610
GB 2303003	P	19950201	GB AA	PRIORITY (PATENT)
		US 382487	A	19950201
GB 2303003	P	19950505	GB AA	APPLICATION NO OF BASIC APPLICATION (APPL. NO OF BASIC APPL.)
		GB 959228	A3	19950505
GB 2303003	P	19950505	GB AE	APPLICATION DATA (APPL. DATA)
		GB 9620175	A	19950505
GB 2303003	P	19970205	GB A1	APPLICATION PUBLISHED (APPL. PUBLISHED)
GB 2303003	P	19970625	GB B2	PATENT GRANTED
GB 2303003	P	19991229	GB PCNP	PATENT CEASED THROUGH

NON-PAYMENT OF RENEWAL FEE
990505

JAPAN (JP)

Patent (No,Kind,Date): JP 8050975 A2 19960220
MOUNTING DEVICE OF BALL GRID ARRAY DEVICE (English)
Patent Assignee: UEIN KEI FUAFU
Author (Inventor): UEIN KEI FUAFU
Priority (No,Kind,Date): US 258348 A 19940610; US 382487 A
19950201
Applic (No,Kind,Date): JP 95141500 A 19950608
IPC: * H01R-033/76; H01L-021/66; H01L-023/32
Derwent WPI Acc No: * G 95-206124; G 96-012918
Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5419710 A 19950530
MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
Patent Assignee: PFAFF WAYNE K (US)
Author (Inventor): PFAFF WAYNE K (US)
Priority (No,Kind,Date): US 258348 A 19940610
Applic (No,Kind,Date): US 258348 A 19940610
National Class: * 439266000; 439071000; 439912000
IPC: * H01R-011/22
Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872; G 95-206124
Language of Document: English

Patent (No,Kind,Date): US 5556293 A 19960917
MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
Patent Assignee: PFAFF WAYNE K (US)
Author (Inventor): PFAFF WAYNE K (US)
Priority (No,Kind,Date): US 382489 A 19950201; US 258348 A2
19940610
Applic (No,Kind,Date): US 382489 A 19950201
Addnl Info: 5419710 Patented
National Class: * 439266000; 439259000
IPC: * H01R-011/22
Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872; G 96-432812
Language of Document: English

Patent (No,Kind,Date): US 5611705 A 19970318
MOUNTING APPARATUS FOR BALL GRID ARRAY DEVICE (English)
Patent Assignee: PFAFF WAYNE K (US)
Author (Inventor): PFAFF WAYNE K (US)
Priority (No,Kind,Date): US 382487 A 19950201; US 258348 A2
19940610
Applic (No,Kind,Date): US 382487 A 19950201
Addnl Info: 5419710 Patented
National Class: * 439266000; 439342000
IPC: * H01R-011/22
Derwent WPI Acc No: * G 95-206124; G 96-012918; G 96-432812; G
97-079999; G 97-089871; G 97-089872
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):
US 5419710 P 19940610 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 258348 A 19940610
US 5419710 P 19950530 US A PATENT
US 5419710 P 19950926 US CC CERTIFICATE OF CORRECTION
US 5556293 P 19940610 US AA PRIORITY
US 258348 A2 19940610
US 5556293 P 19950201 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 382489 A 19950201

US 5556293 P 19960917 US A PATENT
US 5556293 P 19961217 US CC CERTIFICATE OF CORRECTION
US 5611705 P 19940610 US AA PRIORITY
US 5611705 P 19950201 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 382487 A 19950201
US 5611705 P 19970318 US A PATENT
US 5611705 P 19981222 US RF REISSUE APPLICATION FILED
(REISSUE APPL. FILED)
981005

Selected file: LITA

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For technical content information : see INFO LITA

Search statement 1

?nbr/pn us5611705

ER 15

An operator is missing.

Search statement 1

?nbr /pn us5611705

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3	2	US5611515
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5	2	US5611687
6	1	US5611756
7	5	US5611845
8	1	US5612000
9	2	US5612320
10	3	US5612486
11	2	US5612868
12	1	US5613629
13	1	US5613637
14	1	US5613726
15	1	US5613759

Some: numbers / Continue: Y / None: N

Selected file: PAST

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Information on technical content of this file, see INFO PAST

r.

Search statement 1

?nbr /pn us5611705

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14	1	US5611813
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Some: numbers / Continue: Y / None: N

?s 5

** SS 1: Results 1
Continue: Y / N

?prt full

1/1 PAST - (C) PAST
AN - 199851-001094
PN - 5611705 A [US5611705]
DT - A (UTILITY)
OG - 1998-12-22
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

Selected file: LGST

You are now connected to LGST
Current thru weekly updates (2001-13)
For information on content, ..INFO LGST

Search statement 1

?nbr /pn us5611705

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Some: numbers / Continue: Y / None: N

?s 5

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Continue: Y / N

?prt full

1/1 LGST - (C) LEGSTAT
PN - US 5611705 [US5611705]
AP - US 382487/95 19950201 [1995US-0382487]
DT - US-P
ACT - 19950201 US/AE-A
APPLICATION DATA (PATENT)
{US 382487/95 19950201 [1995US-0382487]}
- 19970318 US/A
PATENT
- 19981222 US/RF
REISSUE APPLICATION FILED
981005
UP - 1999-04

Selected file: CRXX

CRXX (CLAIMS Current Legal Status)

Legal Status actions current thru March 27, 2001 (2001-13/UP)

Reassignment data current as of February 2, 2001.

For info on technical content on this file, see: INFO CRXX

?nbr /pn us5611705

1	1	US5611684
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15	1	US5611767

Some: numbers / Continue: Y / None: N

?s 5

** SS 1: Results 1

?prt full

1/1 CRXX - (C) CLAIMS/RRX

AN - 2822496

PN - 5,611,705 A 19970318 [US5611705]

PT - M (Mechanical)

PA - Pfaff, Wayne K

ACT - 19981005 REISSUE REQUESTED

Issue Date of O.G.: 19981222

Reissue Request Number: 09/166238

Examination Group responsible for Reissue process: 3202

UP - 1999-00